852 Product Activity Data

Functional Group ID=PD

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Activity Data Transaction Set (852) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a distributor, warehouse, or retailer to advise a trading partner of inventory, sales, and other product activity information. Product activity data enables a trading partner to plan and ship, or propose inventory replenishment quantities, for distribution centers, warehouses or retail outlets. The receiver of the transaction set will maintain some type of inventory/product movement records for its trading partners to enable replenishment calculations based on data provided by the distributor, warehouse or retailer.

Notes:

1. Organizations use this transaction set to provide asset balance and point of sale information to vendors responsible for replenishing distribution centers, warehouses or retail outlets.

2. Use a single occurrence of this transaction set to report asset balance and point of sale information to a single vendor for a single distribution center, warehouse or retail outlet.

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
3	010	ST	Transaction Set Header	M	1		
4	020	XQ	Reporting Date/Action	M	1		
5	030	XPO	Preassigned Purchase Order Numbers	O	>1		
Not Used	040	N9	Reference Number	O	>1		
Not Used	050	PER	Administrative Communications Contact	O	3		
			LOOP ID - N1			200	
6	060	N1	Name	O	1		n1
Not Used	070	N2	Additional Name Information	O	1		
Not Used	080	N3	Address Information	O	2		
Not Used	090	N4	Geographic Location	O	1		
Not Used	100	FOB	F.O.B. Related Instructions	O	1		
Not Used	110	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		
Not Used	120	DTM	Date/Time/Period	O	>1		
Not Used	130	N9	Reference Number	O	>1		
Not Used	140	PER	Administrative Communications Contact	O	3		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			999999	
8	150	LIN	Item Identification	O	1		
Not Used	160	CTP	Pricing Information	O	25		
Not Used	170	PO4	Item Physical Details	O	1		
Not Used	171	N9	Reference Number	O	>1		
Not Used	175	AMT	Monetary Amount	O	10		
			LOOP ID - ZA			99	
11	180	ZA	Product Activity Reporting	M	1		n2
Not Used	190	CTP	Pricing Information	O	25		
Not Used	200	SDQ	Destination Quantity	O	>1		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
13	210	CTT	Transaction Totals	O	1		n3
14	220	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The reporting location is required. The reporting location is specified explicitly in the N1 segment using the code RL in N101, or implicitly using the SDQ segment (Table 2) with the location data elements. They are mutually exclusive (the SDQ and the N1 with N101 containing RL).
2. The quantity for the item identified in the LIN segment is required. Quantity is specified either in the ZA segment (ZA02) or in the SDQ segment, but not in both.
3. The number of line items (CTT01) is the accumulation of the number of LIN segments. Hash total (CTT02) is not used in this transaction set.
    When sending item and activity data in the LIN loop, the CTT segment is required.

Segment:	**ST** **Transaction Set Header**	
Position:	010	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the start of a transaction set and to assign a control number	
Syntax Notes:		
Semantic Notes:	1	The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	**Transaction Set Identifier Code**	M ID 3/3
			Code uniquely identifying a Transaction Set	
			852 X12.52 Product Activity Data	
Must Use	ST02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment:	**XQ** Reporting Date/Action	
Position:	020	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify reporting date and action to be taken	
Syntax Notes:		
Semantic Notes:	1	XQ02 is the reporting date. If reporting a date range, then XQ02 is the start date and XQ03 is the end date.
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	XQ01	305	**Transaction Handling Code**	M	ID 1/1

Code designating the action to be taken by all parties

F	Plan and Submit Suggested Purchase Order(s)
G	Plan Order(s) and Ship Product
H	Notification Only

	Ref. Des.	Data Element	Name	Attributes	
Must Use	XQ02	373	**Date**	M	DT 6/6

Date (YYMMDD)

	Ref. Des.	Data Element	Name	Attributes	
Not Used	XQ03	373	**Date**	O	DT 6/6

Date (YYMMDD)

Segment:	**XPO** Preassigned Purchase Order Numbers		
Position:	030		
Loop:			
Level:	Heading		
Usage:	Optional (Must Use)		
Max Use:	>1		
Purpose:	To transmit preassigned purchase order numbers		
Syntax Notes:	1	If either XPO03 or XPO04 is present, then the other is required.	
Semantic Notes:	1	XPO01 is the preassigned purchase order number. If a range of purchase order numbers is to be transmitted, use XPO01 for the first number and XPO02 as the ending number.	
Comments:	1	XPO03 and XPO04 specify the location that the purchase order numbers apply to.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	XPO01	324	**Purchase Order Number**	M AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
			Agency preassigned purchase order number. There will be a separate purchase order number for each warehouse receiving location.	
Not Used	XPO02	324	**Purchase Order Number**	O AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
Not Used	XPO03	66	**Identification Code Qualifier**	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
Not Used	XPO04	67	**Identification Code**	X AN 2/17
			Code identifying a party or other code	

Segment:	**N1** Name	
Position:	060	
Loop:	N1 Optional	
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1	At least one of N102 or N103 is required.
	2	If either N103 or N104 is present, then the other is required.
Semantic Notes:		
Comments:	1	This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
	2	N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	N101	98	**Entity Identifier Code**	**M**	**ID 2/2**
			Code identifying an organizational entity, a physical location, or an individual		
			RL Reporting Location		
Not Used	N102	93	**Name**	**X**	**AN 1/35**
			Free-form name		
Must Use	N103	66	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
			10 Department of Defense Activity Address Code (DODAAC)		
			54 Warehouse		
			M4 Department of Defense Routing Identifier Code (RIC)		
			An integral and predetermined participant in an established logistical system performing general logistic control, distribution, and storage functions		
Must Use	N104	67	**Identification Code**	**X**	**AN 2/17**
			Code identifying a party or other code		
			Enter the code applicable to the warehouse reporting location.		
Not Used	N105	706	**Entity Relationship Code**	**O**	**ID 2/2**
			Code describing entity relationship		

Not Used   **N106**   **98**   **Entity Identifier Code**   **O   ID 2/2**

Code identifying an organizational entity, a physical location, or an
individual

Segment:	**LIN** Item Identification	
Position:	150	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Must Use)	
Max Use:	1	
Purpose:	To specify basic item identification data	

Syntax Notes:	**1**	If LIN04 is present, then LIN05 is required.
	2	If LIN06 is present, then LIN07 is required.
	3	If LIN08 is present, then LIN09 is required.
	4	If LIN10 is present, then LIN11 is required.
	5	If LIN12 is present, then LIN13 is required.
	6	If LIN14 is present, then LIN15 is required.
	7	If LIN16 is present, then LIN17 is required.
	8	If LIN18 is present, then LIN19 is required.
	9	If LIN20 is present, then LIN21 is required.
	10	If LIN22 is present, then LIN23 is required.
	11	If LIN24 is present, then LIN25 is required.
	12	If LIN26 is present, then LIN27 is required.
	13	If LIN28 is present, then LIN29 is required.
	14	If LIN30 is present, then LIN31 is required.
Semantic Notes:	**1**	LIN01 is the line item identification
Comments:	**1**	See the Data Dictionary for a complete list of ID's.
	2	LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	LIN01	350	**Assigned Identification**	O AN 1/11

Alphanumeric characters assigned for differentiation within a transaction set

Enter Agency unique system assigned number.

Must Use	LIN02	235	**Product/Service ID Qualifier**	M ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

FS	National Stock Number
SK	Stock Keeping Unit (SKU)
UA	U.P.C./EAN Case Code (2-5-5)
UD	U.P.C./EAN Consumer Package Code (2-5-5)
UI	U.P.C. Consumer Package Code (1-5-5)

Must Use	LIN03	234	**Product/Service ID**	M AN 1/30

Identifying number for a product or service

Enter the code of the product whose activity is being reported.

Not Used	LIN04	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN05	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN06	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN07	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN08	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN09	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN10	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN11	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN12	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN13	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN14	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN15	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN16	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN17	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN18	235	**Product/Service ID Qualifier**	O	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN19	234	**Product/Service ID**	X	AN 1/30
			Identifying number for a product or service		
Not Used	LIN20	235	**Product/Service ID Qualifier**	O	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used	LIN21	234	**Product/Service ID**	X	AN 1/30

Identifying number for a product or service

Not Used	LIN22	235	**Product/Service ID Qualifier**	O	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used	LIN23	234	**Product/Service ID**	X	AN 1/30

Identifying number for a product or service

Not Used	LIN24	235	**Product/Service ID Qualifier**	O	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used	LIN25	234	**Product/Service ID**	X	AN 1/30

Identifying number for a product or service

Not Used	LIN26	235	**Product/Service ID Qualifier**	O	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used	LIN27	234	**Product/Service ID**	X	AN 1/30

Identifying number for a product or service

Not Used	LIN28	235	**Product/Service ID Qualifier**	O	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used	LIN29	234	**Product/Service ID**	X	AN 1/30

Identifying number for a product or service

Not Used	LIN30	235	**Product/Service ID Qualifier**	O	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used	LIN31	234	**Product/Service ID**	X	AN 1/30

Identifying number for a product or service

Segment: **ZA** **Product Activity Reporting**
Position: 180
Loop: ZA Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To provide activity details concerning product being reported
Syntax Notes: 1 If either ZA02 or ZA03 is present, then the other is required.
2 If either ZA04 or ZA05 is present, then the other is required.
3 If either ZA06 or ZA07 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ZA01	859	Activity Code	M ID 2/2

Code identifying activity details for the product being reported

QL/QM entries specify the quantity range vendor is required to maintain.

QA Current Inventory Quantity Available for Shipment or Sale

Indicates the quantity currently available to be sold or shipped

QC Quantity Committed

Quantity reserved for orders not shipped

QD Additional Demand Quantity

Indicates demand for this item satisfied by direct vendor delivery.

QH Quantity Damaged or On Hold

Quantity of inventory received which cannot be shipped in its present form

QL Minimum Inventory Quantity

The minimum inventory quantity for replenishment purposes

QM Maximum Inventory Quantity

The maximum inventory quantity for replenishment purposes

QO Quantity Out of Stock

Indicates quantity on backorder.

QP Quantity On Order, Not Yet Received

Total quantity expected to be received from supplier for current reporting period, but not yet received

QS Quantity Sold

Must Use	**ZA02**	**380**	**Quantity**	**X**	**R 1/15**

Numeric value of quantity

Enter quantity applicable to the code being reported.

Must Use	**ZA03**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Enter unit of issue for item being reported.

Refer to 003040 Data Element Dictionary for acceptable code values.

Not Used	**ZA04**	**374**	**Date/Time Qualifier**	**X**	**ID 3/3**

Code specifying type of date or time, or both date and time

Not Used	**ZA05**	**373**	**Date**	**X**	**DT 6/6**

Date (YYMMDD)

Not Used	**ZA06**	**128**	**Reference Number Qualifier**	**X**	**ID 2/2**

Code qualifying the Reference Number.

Not Used	**ZA07**	**127**	**Reference Number**	**X**	**AN 1/30**

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Segment:		**CTT** Transaction Totals		
Position:		210		
Loop:				
Level:		Summary		
Usage:		Optional (Must Use)		
Max Use:		1		
Purpose:		To transmit a hash total for a specific element in the transaction set		
Syntax Notes:		**1** If CTT03 is present, then CTT04 is required.		
		2 If CTT05 is present, then CTT06 is required.		
Semantic Notes:				
Comments:		**1** This segment is intended to provide hash totals to validate transaction completeness and correctness.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**CTT01**	**354**	**Number of Line Items**	**M**	**N0 1/6**

Total number of line items in the transaction set

Enter the number of occurrences of LIN.

	Ref. Des.	Data Element	Name	Attributes	
Not Used	**CTT02**	**347**	**Hash Total**	**O**	**R 1/10**

Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

	Ref. Des.	Data Element	Name	Attributes	
Not Used	**CTT03**	**81**	**Weight**	**O**	**R 1/10**

Numeric value of weight

	Ref. Des.	Data Element	Name	Attributes	
Not Used	**CTT04**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

	Ref. Des.	Data Element	Name	Attributes	
Not Used	**CTT05**	**183**	**Volume**	**O**	**R 1/8**

Value of volumetric measure

	Ref. Des.	Data Element	Name	Attributes	
Not Used	**CTT06**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

	Ref. Des.	Data Element	Name	Attributes	
Not Used	**CTT07**	**352**	**Description**	**O**	**AN 1/80**

A free-form description to clarify the related data elements and their content

Segment:	**SE** Transaction Set Trailer		
Position:	220		
Loop:			
Level:	Summary		
Usage:	Mandatory		
Max Use:	1		
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).		
Syntax Notes:			
Semantic Notes:			
Comments:	**1**	SE is the last segment of each transaction set.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments**	**M N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	**SE02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			Enter the same number cited in ST02.	